



SEQUENCE LISTING

<110> Anderson, David J
 Schoenherr, Christopher J
 <120> Antibodies That Bind Neuron Restrictive Silencer Factor
 Proteins
 <130> 17810-502 CIPCON
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 <141> 2000-06-01
 <150> 08/894,997
 <151> 1998-01-16
 <150> PCT/US96/02817
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 <150> 08/398,590
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<213> Gallus gallus

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<213> Homo sapiens

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<400> 22

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<213> *Homo sapiens*

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<220>

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<213> Rattus rattus

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<223> Rat neuronal nicotinic acetylcholine receptor B2

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<223> Human NSRF (partial)

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Ser	Pro	Glu	Thr	Pro	Ala	Thr	Lys	Lys	Ser	Ser	Arg	Arg	Arg	Ser	Gly	50	55	60	
Asp	Ser	Gly	Ser	Pro	Ala	Pro	Pro	His	Arg	Gly	Arg	Pro	Asn	Thr	Val	65	70	75	80
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Leu	His	Asp	Leu	Ser	Lys	Ala	Glu	Leu	Ala	Ala	Pro	Gln	Leu	Ile	Met	115	120	125	
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Asp	Asn	Asn	Phe	Ser	Asp	Ser	Glu	Glu	Gly	Glu	Gly	Leu	Glu	Glu	Ser	165	170	175	
Ala	Asp	Ile	Lys	Gly	Glu	Pro	His	Gly	Leu	Glu	Asn	Met	Glu	Leu	Arg	180	185	190	
Ser	Leu	Glu	Leu	Ser	Val	Val	Glu	Pro	Gln	Pro	Val	Phe	Glu	Ala	Ser	195	200	205	
Gly	Ala	Pro	Asp	Ile	Tyr	Ser	Ser	Asn	Lys	Asp	Leu	Pro	Pro	Glu	Thr	210	215	220	
Pro	Gly	Ala	Glu	Asp	Lys	Gly	Lys	Ser	Ser	Lys	Thr	Lys	Pro	Phe	Arg	225	230	235	240
Cys	Lys	Pro	Cys	Gln	Tyr	Glu	Ala	Glu	Ser	Glu	Glu	Gln	Phe	Val	His	245	250	255	

His	Ile	Arg	Val	His	Ser	Ala	Lys	Lys	Phe	Phe	Val	Glu	Glu	Ser	Ala		260	265	270
Glu	Lys	Gln	Ala	Lys	Ala	Arg	Glu	Ser	Gly	Ser	Ser	Thr	Ala	Glu	Glu		275	280	285
Gly	Asp	Phe	Ser	Lys	Gly	Pro	Ile	Arg	Cys	Asp	Arg	Cys	Gly	Tyr	Asn		290	295	300
Thr	Asn	Arg	Tyr	Asp	His	Tyr	Thr	Ala	His	Leu	Lys	His	His	Thr	Arg		305	310	315
Ala	Gly	Asp	Asn	Glu	Arg	Val	Tyr	Lys	Cys	Ile	Ile	Cys	Thr	Tyr	Thr		325	330	335
Thr	Val	Ser	Glu	Tyr	His	Trp	Arg	Lys	His	Leu	Arg	Asn	His	Phe	Pro		340	345	350
Arg	Lys	Val	Tyr	Thr	Cys	Gly	Lys	Cys	Asn	Tyr	Phe	Ser	Asp	Arg	Lys		355	360	365
Asn	Asn	Tyr	Val	Gln	His	Val	Arg	Thr	His	Thr	Gly	Glu	Arg	Pro	Tyr		370	375	380
Lys	Cys	Glu	Leu	Cys	Pro	Tyr	Ser	Ser	Ser	Gln	Lys	Thr	His	Leu	Thr		385	390	395
Arg	His	Met	Arg	Thr	His	Ser	Gly	Glu	Lys	Pro	Phe	Lys	Cys	Asp	Gln		405	410	415
Cys	Ser	Tyr	Val	Ala	Ser	Asn	Gln	His	Glu	Val	Thr	Arg	His	Ala	Arg		420	425	430
Gln	Val	His	Asn	Gly	Pro	Lys	Pro	Leu	Asn	Cys	Pro	His	Cys	Asp	Tyr		435	440	445
Lys	Thr	Ala	Asp	Arg	Ser	Asn	Phe	Lys	Lys	His	Val	Glu	Leu	His	Val		450	455	460
Asn	Pro	Arg	Gln	Phe	Asn	Cys	Pro	Val	Cys	Asp	Tyr	Ala	Ala	Ser	Lys		465	470	475
Lys	Cys	Asn	Leu	Gln	Tyr	His	Phe	Lys	Ser	Lys	His	Pro	Thr	Cys	Pro		485	490	495
Asn	Lys	Thr	Met	Asp	Val	Ser	Lys	Val	Lys	Leu	Lys	Lys	Thr	Lys	Lys		500	505	510

Arg Glu Ala Asp Leu Pro Asp Asn Ile Thr Asn Glu Lys Thr Glu Ile
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Val His His Ile Arg Val His
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<210> 42
<211> 32
<212> PRT
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<223> Zinc finger region Z2

<400> 42
Ile Arg Cys Asp Arg Cys Gly Tyr Asn Thr Asn Arg Tyr Asp His Tyr
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<211> 28
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<220>
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<220>
<221> DOMAIN
<222> (1)..(28)
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<400> 43
Tyr Lys Cys Ile Ile Cys Thr Tyr Thr Thr Val Ser Glu Tyr His Trp
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Arg Lys His Leu Arg Asn His Phe Pro Arg Lys Val
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<210> 44
 <211> 28
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<220>
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 <222> (1)..(28)
 <223> Zinc finger region Z4

<400> 44
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 Val Gln His Val Arg Thr His Thr Gly Glu Arg Pro
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<210> 45
 <211> 28
 <212> PRT
 <213> Homo sapiens

<220>
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<400> 45
 Tyr Lys Cys Glu Leu Cys Pro Tyr Ser Ser Ser Gln Lys Thr His Leu
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 Thr Arg His Met Arg Thr His Ser Gly Glu Lys Pro
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<210> 46
 <211> 29
 <212> PRT
 <213> Homo sapiens

<220>
 <221> DOMAIN
 <222> (1)..(29)
 <223> Zinc finger domain Z6

<400> 46
 Phe Lys Cys Asp Gln Cys Ser Tyr Val Ala Ser Asn Gln His Glu Val

<221> gene
 <222> (1)..(4057)
 <223> Human NSRF

<400> 49

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<210> 50
<211> 976
<212> PRT
<213> Homo sapiens

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<220>
<221> PEPTIDE
<222> (1)..(976)
<223> Human NSRF

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<220>
<221> CHAIN
<222> (1)..(976)
<223> Human NSRF

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Asn Asn Ser Ala Asn Met Gly Met Xaa Leu Thr Asn Asp Met Tyr Asp
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Leu	His	Glu	Leu	Ser	Lys	Ala	Glu	Leu	Ala	Ala	Pro	Gln	Leu	Ile	Met			
		35					40					45						
Leu	Ala	Asn	Val	Ala	Leu	Thr	Gly	Glu	Ala	Ser	Gly	Ser	Cys	Cys	Asp			
	50					55					60							
Tyr	Leu	Val	Gly	Glu	Glu	Arg	Gln	Met	Ala	Glu	Leu	Met	Pro	Val	Gly			
	65				70					75					80			
Asp	Asn	His	Phe	Ser	Glu	Ser	Glu	Gly	Glu	Gly	Leu	Glu	Glu	Ser	Ala			
			85					90						95				
Asp	Leu	Lys	Gly	Leu	Glu	Asn	Met	Glu	Leu	Gly	Ser	Leu	Glu	Leu	Ser			
			100					105					110					
Ala	Val	Glu	Pro	Gln	Pro	Val	Phe	Glu	Ala	Ser	Ala	Ala	Pro	Glu	Ile			
	115						120					125						
Tyr	Ser	Ala	Asn	Lys	Asp	Pro	Ala	Pro	Glu	Thr	Pro	Val	Ala	Glu	Asp			
	130					135					140							
Lys	Cys	Arg	Ser	Ser	Lys	Ala	Lys	Pro	Phe	Arg	Cys	Lys	Pro	Cys	Gln			
145					150				155						160			
Tyr	Glu	Ala	Glu	Ser	Glu	Glu	Gln	Phe	Val	His	His	Ile	Arg	Ile	His			
				165				170					175					
Ser	Ala	Lys	Lys	Phe	Phe	Val	Glu	Glu	Ser	Ala	Glu	Lys	Gln	Ala	Lys			
			180				185						190					
Ala	Trp	Glu	Ser	Gly	Ser	Ser	Pro	Ala	Glu	Glu	Gly	Glu	Phe	Ser	Lys			
	195						200					205						
Gly	Pro	Ile	Arg	Cys	Asp	Arg	Cys	Gly	Tyr	Asn	Thr	Asn	Arg	Tyr	Asp			
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His	Tyr	Met	Ala	His	Leu	Lys	His	His	Leu	Arg	Ala	Gly	Glu	Asn	Glu			
225					230					235					240			
Arg	Ile	Tyr	Lys	Cys	Ile	Ile	Cys	Thr	Tyr	Thr	Thr	Val	Ser	Glu	Tyr			
			245						250					255				
His	Trp	Arg	Lys	His	Leu	Arg	Asn	His	Phe	Pro	Arg	Lys	Val	Tyr	Thr			
			260					265					270					
Cys	Ser	Lys	Cys	Asn	Tyr	Phe	Ser	Asp	Arg	Lys	Asn	Asn	Tyr	Val	Gln			
		275					280					285						

His Val Arg Thr His Thr Gly Glu Arg Pro Tyr Lys Cys Glu Leu Cys
 290 295 300

Pro Tyr Ser Ser Ser Gln Lys Thr His Leu Thr Arg His Met Arg Thr
 305 310 315 320

His Ser Gly Glu Lys Pro Phe Lys Cys Asp Glu Cys Asn Tyr Val Ala
 325 330 335

Ser Asn Gln His Glu Val Thr Arg His Ala Arg Gln Val His Asn Gly
 340 345 350

Pro Lys Pro Leu Asn Cys Pro His Cys Asp Tyr Lys Thr Ala Asp Arg
 355 360 365

Ser Asn Phe Lys Lys His Val Glu Leu His Val Asn Pro Arg Gln Phe
 370 375 380

Asn Cys Pro Val Cys Asp Tyr Ala Ala Ser Lys Lys Cys Asn Leu Gln
 385 390 395 400

Tyr His Phe Lys Ser Lys His Pro Thr Cys Pro Ser Lys Thr Met Asp
 405 410 415

Val Ser Lys Val Lys Leu Lys Lys Thr Lys Lys Arg Glu Ala Asp Leu
 420 425 430

Leu Asn Asn Ala Val Ser Asn Glu Lys Met Glu Asn Glu Gln Thr Lys
 435 440 445

Thr Lys Gly Asp Val Ser Gly Lys Lys Asn Glu Lys Pro Val Lys Ala
 450 455 460

Val Gly Lys Asp Ala Ser Lys Glu Lys Lys Pro Gly Ser Ser Val Ser
 465 470 475 480

Val Val Gln Val Thr Thr Arg Thr Arg Lys Ser Ala Val Ala Ala Glu
 485 490 495

Thr Lys Ala Ala Glu Val Lys His Thr Asp Gly Gln Thr Gly Asn Asn
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Pro Glu Lys Pro Cys Lys Ala Lys Lys Asn Lys Arg Lys Lys Asp Ala
 515 520 525

Glu Ala His Pro Ser Asp Glu Pro Val Asn Glu Gly Pro Val Thr Lys
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Lys Lys Lys Lys Ser Glu Cys Lys Ser Lys Ile Ser Thr Asn Val Pro
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Lys Gly Gly Gly Arg Ala Glu Glu Arg Pro Gly Val Lys Lys Gln Ser
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Ala Ser Leu Lys Lys Gly Thr Lys Lys Thr Pro Pro Lys Thr Lys Thr
 580 585 590

Ser Lys Lys Gly Gly Lys Leu Ala Pro Thr Glu Pro Ala Pro Pro Thr
 595 600 605

Gly Leu Ala Glu Met Glu Pro Ser Pro Thr Glu Pro Ser Gln Lys Glu
 610 615 620

Pro Pro Pro Ser Met Glu Pro Pro Cys Pro Glu Glu Leu Pro Gln Ala
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Glu Pro Pro Pro Met Glu Asp Cys Gln Lys Glu Leu Pro Ser Pro Val
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Glu Pro Ala Gln Ile Glu Val Ala Gln Thr Ala Pro Thr Gln Val Gln
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Glu Glu Pro Pro Pro Val Ser Glu Pro Pro Arg Val Lys Pro Thr Lys
 675 680 685

Arg Ser Ser Leu Arg Lys Asp Arg Ala Glu Lys Glu Leu Ser Leu Leu
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Pro Pro Ala Pro Pro Ser Pro Ser Pro Lys Gly Asn Ser Arg Glu Glu
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Thr Pro Lys Asp Gln Glu Met Val Ser Asp Gly Glu Gly Thr Ile Val
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Phe Pro Leu Lys Lys Gly Gly Pro Glu Glu Ala Gly Glu Ser Pro Ala
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Glu Leu Ala Ala Leu Lys Glu Ser Ala Arg Val Ser Ser Ser Glu Gln
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Thr	Val	Asp	Arg	Asp	Ala	Gly	Ser	Pro	Ala	Val	Val	Ala	Ser	Pro	Pro		
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		915					920					925					
Glu	Phe	Val	Cys	Ile	Phe	Cys	Asp	Arg	Ser	Phe	Arg	Lys	Glu	Lys	Asp		
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Tyr	Ser	Lys	His	Leu	Asn	Arg	His	Leu	Val	Asn	Val	Tyr	Phe	Leu	Glu		
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<223> Na33

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<223> n = a or g or t/u or c

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37

<210> 53
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<220>
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39

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<220>

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<220>
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<222> (3)
<223> n = a or g or t/u or c

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<210> 55
<211> 27
<212> DNA
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<220>
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<223> n = a or g or t/u or c

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27